

## URINALYSIS

### A. ROUTINE URINALYSIS:

1. Routine urinalysis can be performed on a random specimen of urine, but the concentrated early morning specimen, collected immediately after awakening, is preferred. The "clean catch" or "mid stream" fraction of the specimen is necessary, particularly for female patients. Urine for routine examination should be sent to the laboratory immediately after collection.
2. Label all specimens with the label attached to the container, not the lid. Include the following information: LAST NAME, FIRST NAME, SSN/FMP.
3. Specimen requirements: The following urine chemical tests are performed on all urines. A single random collection of 10 ml is preferred, however smaller collections will be accepted. Amounts less than 10 ml will be noted on the lab slip.

<u>TEST</u>	<u>NORMAL RANGE</u>
Glucose	Neg
Bilirubin	Neg
Ketone	Neg
Specific Gravity	1.003-1.030
Blood	Neg
pH	4.5 – 8.0
Protein	Neg
Urobilinogen	0.2-1.0 mg/dl
Nitrite	Neg

4. A microscopic examination will be performed if there is:

- + Leukocyte Esterase
  - + Nitrite
  - + Blood
  - + Protein
- Requested by Physician

5. Expected values for urine microscopy are as follows:

**WBC:** 0-5/hpf

**RBC:** 0-5/hpf

**Epithelial Cells:** 0/hpf (Abnormal: Any other than squamous). Specimens containing >10 squamous epithelial cells will be considered contaminated and a repeat sample will be requested.

**Crystals:** 0-3/hpf (non-pathogenic)

**Yeasts:** 0-3/hpf (Abnormal-any).

**Trichomonas:** 0/hpf

**Casts:** 0/hpf

**Bacteria:** 0-5/hpf

**Fat:** 0/hpf (Abnormal: Oval fat bodies or free fat).

6. Clinitest determinations for total reducing substances are performed on all urine specimens from pediatric patients less than FIVE year of age OR when ordered by physician.

## **B. URINE CULTURE:**

1. Urine cultures will be performed on the following specimens:

- Physician requested
- Positive Leukocyte esterase
- Positive nitrite
- 2+ bacteria
- 5-9 WBC/hpf (males)
- 10-15 WBC/hpf (females)

2. Cultures WILL NOT be performed on pediatric patients (<15 years) with a positive LE or Nitrite, UNLESS the provider requests.